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- 1 [Productive petascale computing: requirements, hardware, and software](#)  
Michael L. Van De Vanter, Alan Wood, Christopher Vick, Stuart Faulk, Susan Squ  
January 2009      Productive petascale computing: requirements, hardware  
**Publisher:** Sun Microsystems, Inc.  
Full text available: [Pdf](#) (5.18 MB)  
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Supercomputer designers traditionally focus on low-level hardware performance, disk bandwidth, and memory latency. The High-Performance Computing (HPC) community has to realize that escalating hardware ...

- 2 [A resource-awareness information extraction architecture on mobile grid computing](#)  
Yue-Shan Chang, Pei-Chun Shih  
November 2010      **Journal of Network and Computer Applications**  
**Publisher:** Academic Press Ltd.  
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With the advances in mobile grid technology, it is possible to store ever greater data in a grid environment. The issues of information retrieval and knowledge discovery are becoming increasingly ...

**Keywords:** Information extraction, Mobile agent, Mobile grid, Resource awareness

- 3 [A progressive multi-layer resource reconfiguration framework for time-shared computing](#)  
Po-Cheng Chen, Jyh-Biau Chang, Tyng-Yeu Liang, Ce-Kuen Shieh  
June 2009      **Future Generation Computer Systems**, Volume 25 Issue 1  
**Publisher:** Elsevier Science Publishers B. V.  
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Grid resources are non-dedicated, and thus grid users are forced to compete for resources. As a result, the turnaround times of both the grid jobs and the owners of the grid resources are long. To solve this problem, the current ...

**Keywords:** CPU cycle stealing, Distributed shared memory, Non-dedicated resources, Teamster-G, Time-shared grid resources

- 4 [The PRIMA System for Privilege Management, Authorization and Enforcement](#)